

a_k	b_k	peak-bit $a_k b_k$	lower branch	upper branch
0	0	0	[0 0 ... 0]	[0 0 ... 0]
0	1	0	[0 0 ... 0]	[a_{k-1} ... $a_1 a_0$]
1	0	0	[b_{k-1} ... $b_1 b_0$]	[0 0 ... 0]
1	1	1	[b_{k-1} ... $b_1 b_0$]	[a_{k-1} ... $a_1 a_0$]

Figure 4

0 1 1 1 0 0 1	sequence [a_{N-2} ... $a_1 a_0$]
1 1 0 1 1 0 1	sequence [b_{N-2} ... $b_1 b_0$]

0 1 0 0 1 1 0	sequence [s_{N-2} ... $s_1 s_0$] (sum)
1 1 1 1 0 0 1	sequence [c_{N-1} ... $c_2 c_1$] (carries)

Figure 5

initial branch length of V	

1 0 0	1
0 1 1 0	2
0 1 1 1 0	3
1 0 0 1 1 0	4
1 0 0 0 1 1 0	5
1 0 1 0 0 1 1 0	6
1 0 0 1 0 0 1 1 0	7

} 602

Figure 6

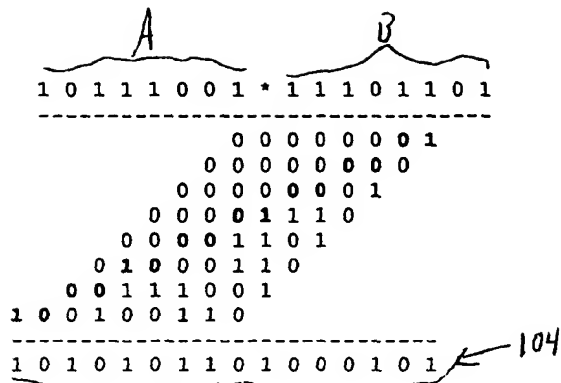


Figure 7

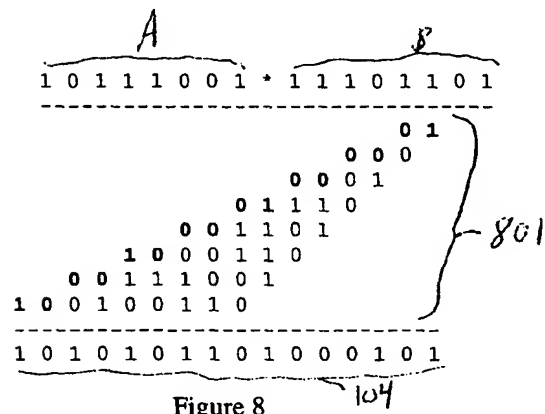


Figure 8

a_k	b_k	line #k
0	0	[0 0 ... 0]
0	1	[$a_{k-1} \dots a_1 a_0$]
1	0	[$b_{k-1} \dots b_1 b_0$]
1	1	[$s_{k-1} \dots s_1 s_0$]

Figure 9

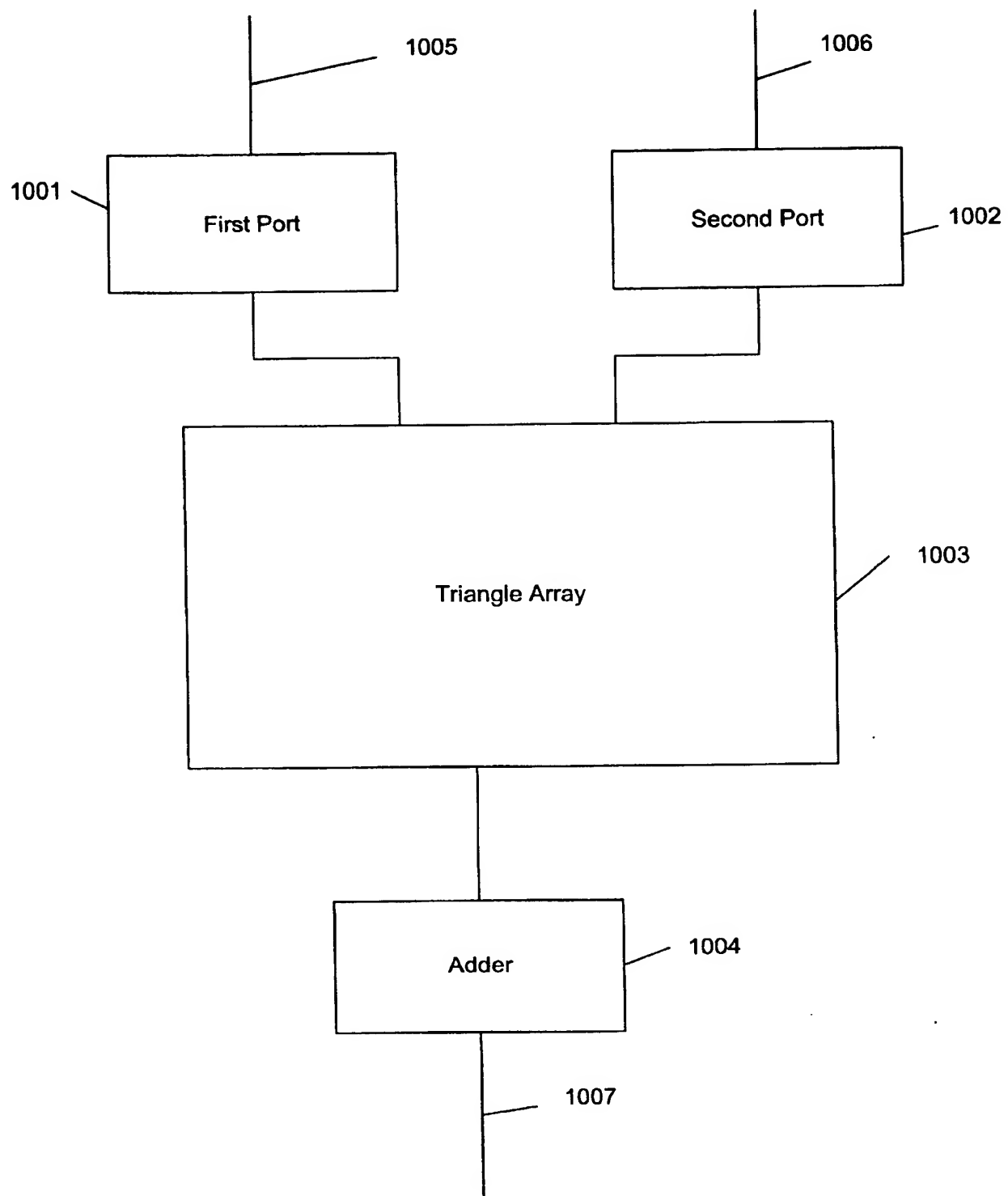


Figure 10